

TEXAS BOARD OF WATER ENGINEERS

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RECORDS OF WELLS PRODUCING WATER FROM THE TRAVIS PEAK FORMATION
IN THE DALLAS AREA, TEXAS

Compiled by

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Texas Board of Water Engineers

January 1957

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INTRODUCTION

The Texas Board of Water Engineers is charged with making, independently or in cooperation with other state or federal agencies, scientific investigations of the ground-water resources of the State. Periodic investigations are made in various parts of the State to determine the extent of ground-water utilization and the effects of ground-water withdrawals on the available supplies.

This brief report contains records of wells producing water from the Travis Peak formation in the Dallas area, Texas. The Dallas area, as used in this report, includes all of Dallas County and adjacent parts of Collins, Denton, and Tarrant Counties (Figure 1). The report was prepared by the Board of Water Engineers following a brief field investigation that was made from October 15 through 26, 1956. An inventory of wells in Dallas County was compiled in 1942 and published in 1943 by the Board of Water Engineers in cooperation with the United States Geological Survey.

Appreciation is gratefully expressed for assistance from J. L. Myers and Sons and Layne Texas Inc., drilling contractors, and consulting engineers and industrial and municipal officials in the Dallas area. The assistance of the staff of the City of Dallas water department is especially appreciated.

The Travis Peak formation is the lower member of the Trinity group of the Cretaceous series and is commonly called the "Trinity sand". It consists of alternating layers of sand or sandstone and shale. Wells in the Dallas area obtain water from the Travis Peak formation primarily for municipal and industrial uses. Records of 74 wells in the Dallas area which tap the Travis Peak formation are shown in Table 1. Sixty-nine of these wells were in operation in October 1956 and five are scheduled to go into service soon after October, 1956. Locations of the 74 wells are shown in Figure 1.

Water levels in Travis Peak wells in the Dallas area have declined in response to increases in pumpage. Static water-level measurements in selected Travis Peak wells in 1953-56 and estimated monthly pumpage from Travis Peak wells 1954-56 in Dallas County are shown in Figure 2. Pumping levels were measured in selected Travis Peak wells in Dallas County in 1953-56 and are shown in Figure 3.

Table 1.- Records of wells producing water from the Travis Peak Formation
("Trinity Sand") in the Dallas area, Texas, October 1956

Well No.	Date Drilled	Depth (feet)	Diameter of Pump Pit (inches)	Depth of Pump Pit (feet)	Diameter of casing (inches)	Pump setting (feet)	Pumping Level			
							Date	Feet below land surface	Pumping rate (gpm)	
Dallas County										
1	City of Dallas #35	1924	2745	13-3/8	695	8-5/8	600	10-25-56	560	575
2	City of Dallas #38	1931	2634	18	580	8	570	10-25-56	565	500
3	City of Dallas #40	1953	2800	20	800	13-3/8	610	do.	610 [†]	750
4	City of Dallas #41	1952	3076	20	840	13-3/8	600	do.	592	1475
5	City of Dallas #42	1953	2540	20	820	13-3/8	700	do.	643	1250
6	City of Dallas #43	1953	3206	20	770	13-3/8	700	do.	540/a	1660 [†]
7	City of Dallas #44	1953	3601	20	900	13-3/8	700	do.	660/a	1840
8	City of Grand Prairie #13	--	2050 [†]	13-3/8	700	10	655	10-56	640 [†]	415 [†]
9	City of Grand Prairie #14	1950	2077	13-3/8	800	10-3/4	666	10-18-56	>670	--
10	City of Grand Prairie #15	1952	2067	16	802	10-3/4	696	9-20-56	669	--
11	City of Grand Prairie #16	--	2163	16	914	10-3/4	691	10-18-56	683	520
12	Chance-Vought Aircraft Inc. #2	1941	2147	13-3/8	652	8-5/8	630	7-25-56	610	384
13	Chance-Vought Aircraft Inc. #3	1942	2080	13-3/8	657	8-5/8	630	10-17-56	612	376

Table 1.- Continued

Well No.	Owner	Date Drilled	Depth (feet)	Diameter of Pump Pit (inches)	Depth of Pump Pit (feet)	Diameter of casing (inches)	Pump setting (feet)	Pumping Level		
								Date	Feet below land surface	Pumping rate (gpm)
14	Chance-Vought Aircraft Inc. #4	1942	2077	13-3/8	656	8-5/8	630	10-17-56	610	336
15	Dallas Naval Air Station	1942	2156	10-3/4	503	7	600	10-23-56	--	140
16	City of Irving #1	1945	2280	10	617	8	580	--	--	--
17	City of Irving #2	1948	2267	13-3/8	712	8-5/8	680	10- 9-56	614	--
18	City of Irving #3	1952	2184	14	699	8-5/8	680	--	--	--
19	City of Irving #4	1952	2094	13-3/8	710	8-5/8	680	--	--	--
20	City of Irving #5	1953	2309	13-3/8	800	8-5/8	680	--	--	--
21	City of Irving #6	1954	2134	13-3/8	800	8-5/8	680	10-19-56	611	550/a
22	City of Carrollton #3	1948	2338	10-3/4	700	7	450	10-24-56	385	--
23	Magnolia Field Research Lab.	1943	2575	9	2357	7	830	10-18-56	678	85
24	Mt. St. Michael Home	1947	2667	10-3/4	800	7	753	--	--	--
25	General Portland Cement Co.	1950	2597	10-3/4	808	7	660	--	--	--

Table 1.- Continued

Well No.	Owner	Date Drilled	Depth (feet)	Diameter of Pump Pit (inches)	Depth of Pump Pit (feet)	Diameter of casing (inches)	Pump setting (feet)	Pumping Level		
								Date	Feet below land surface	Pumping rate (gpm)
26	Lone Star Cement Co. #1	1953	2544	13-3/8	824	8-5/8	650	--	--	--
27	Lone Star Cement Co. #2	1956	2588	13-3/8	1000	8	650	--	--	--
28	Ruberoid Company	1953	2504	8	700	7	530	10-56	>530	--
29	Dallas Power & Light Co. #3	--	2734	14	806	8-5/8	700	--	--	--
30	Dallas Power & Light Co. #4	--	2755	16	696	8-5/8	680	8-56	620	--
31	Dallas Power & Light Co. #5	1950	2754	16	780	8-5/8	700	--	--	--
32	Dallas Power & Light Co. #6	1950	2728	16	770	8-5/8	700	--	--	--
33	Dallas Power & Light Parkdale #1	1952	3200	20	835	13-3/8	700	--	--	--
34	Dallas Power & Light Parkdale #2	--	3200 [±]	20	835	13-3/8	700	8-56	492	--
35	Union Terminal Co.	1925	2776	8 $\frac{1}{4}$	2428	6	550	10-56	488	--
36	Fleming & Sons Paper Mill	1948	2759	13-3/8	762	8-5/8	600	--	--	--

Table 1.- Continued

Well No.	Owner	Date Drilled	Depth (feet)	Diameter of Pump Pit (inches)	Depth of Pump Pit (feet)	Diameter of casing (inches)	Pump setting (feet)	Pumping Level		
								Date	Feet below land surface	Pumping rate (gpm)
37	City of Richardson #3	1952	3326	13-3/8	813	8-5/8	650	10-23-56	616	--
38	City of Garland #3	1942	3633	--	600	--	600	--	--	--
39	City of Garland #4	1949	3626	16	806	10	450	--	--	--
40	City of Garland #5	1952	3688	18	820	10-3/4	550	10-26-56	541	--
41	City of Garland #6	1945	3488	13-3/8	687	7	600	--	--	--
42	City of Mesquite	1951	3871	10-3/4	700	7	400	10-56	>400	--
43	City of Lancaster #3	1952	3230	14	701	8-5/8	400	--	--	--
44	Dallas Co. WC & ID No. 6 #1	1952	3840	8-5/8	1112	7-5/8	450	--	--	--
45	Dallas Co. WC & ID No. 6 #2	1956	4084	13-3/8	870	8-5/8	650	6-56	387	500
46	Dallas Co. WC & ID No. 7	1956	4121	13-3/8	900	8-5/8	550	5-5-56	328	650
47	Dallas Co. WC & ID No. 8	1955	2641	13-3/8	1047	8-5/8	800	3-55	680	350
48	Eastman Kodak Co.	1953	2689	14	898	8-5/8	580	10-22-56	447	300

Table 1.- Continued

Well No.	Owner	Date Drilled (feet)	Depth of Pump Pit (inches)	Depth of Pump Pit (feet)	Diameter of casing (inches)	Pump setting (feet)	Date	Pumping Level		
								Feet below land surface	Pumping rate (gpm)	
49	City of Cedar Hill	1953	13-3/8	1000	7	800	--	--	--	
<u>Denton County</u>										
50	City of Lewisville (Old Trinity)	1945	8	521	5	370	--	--	--	
51	City of Lewisville #3	1955	13-3/8	1002	10-3/4	400	--	--	--	
52	City of Denton #2	1953	20	500	14	600	10-24-56	592	613 ⁺	
53	City of Denton #3	1926	10-3/4	1000	8-5/8	490	--	--	--	
54	City of Denton #4	1934	13	700	10	500	--	--	--	
55	City of Denton #5	1940	10	728	8	610	10-24-56	585	414 ⁺	
56	City of Denton #6	1944	--	--	--	570	--	--	--	
57	City of Denton #7	1944	13-3/8	1000	10-3/4	550	--	--	--	
58	City of Denton #8	1947	13	1040	10-3/4	481	10-24-56	451	219 ⁺	
59	City of Denton #9	1947	13-3/8	1010	10-3/4	550	--	--	--	
60	City of Denton #10	1948	13-3/8	1055	10-3/4	480	--	--	--	
61	City of Denton #12	1953	20	500	14	560	--	--	--	
62	Denton Airport	1946	8-5/8	830	7	--	--	--	--	

Table 1.- Continued

Well No.	Owner	Date Drilled	Depth (feet)	Diameter of Pump Pit (inches)	Depth of Pump Pit (feet)	Diameter of casing (inches)	Pump setting (feet)	Pumping Level		
								Date	Feet below land surface	Pumping rate (gpm)
<u>Collin County</u>										
63	Texas Power & Light Co. #1	1953	2525	26	1070	13-3/8	480	--	--	--
64	Texas Power & Light Co. #2	1954	2662	20	1160	13-3/8	560	10-23-56	400	--
65	City of Frisco	1950	2660	7	616	5	550	do.	407	--
66	City of McKinney #6	1950	3060	13-3/8	617	8-5/8	450	--	--	--
67	City of McKinney Wadill St. Well	1945	3360	13-3/8	714	8-5/8	450	--	--	--
<u>Tarrant County</u>										
68	Ft. Worth Air Terminal Inc. #1	1951	1840	14	1556	8-5/8	649	--	--	--
69	Ft. Worth Air Terminal Inc. #2	1955	1755	14	1618	8-5/8	500	--	--	--
<u>Wells to be put in service after October, 1956</u>										
70	City of Dallas #39	1938	2873	18	612	--	--	--	--	--
71	City of Dallas #45	1956	--	13-3/8	1040	--	900/b	--	--	--
72	Dallas Co. Park Cities WC & ID #2	1953	2400	18	1010	10-3/4	--	--	--	--
73	Dallas Power & Light Parkdale #3	1956	--	20	1200	--	800/b	--	--	--
74	City of Lancaster #4	1956	3249	13-3/8	808	8-5/8	560/b	--	--	--

a/ Estimated

b/ Proposed

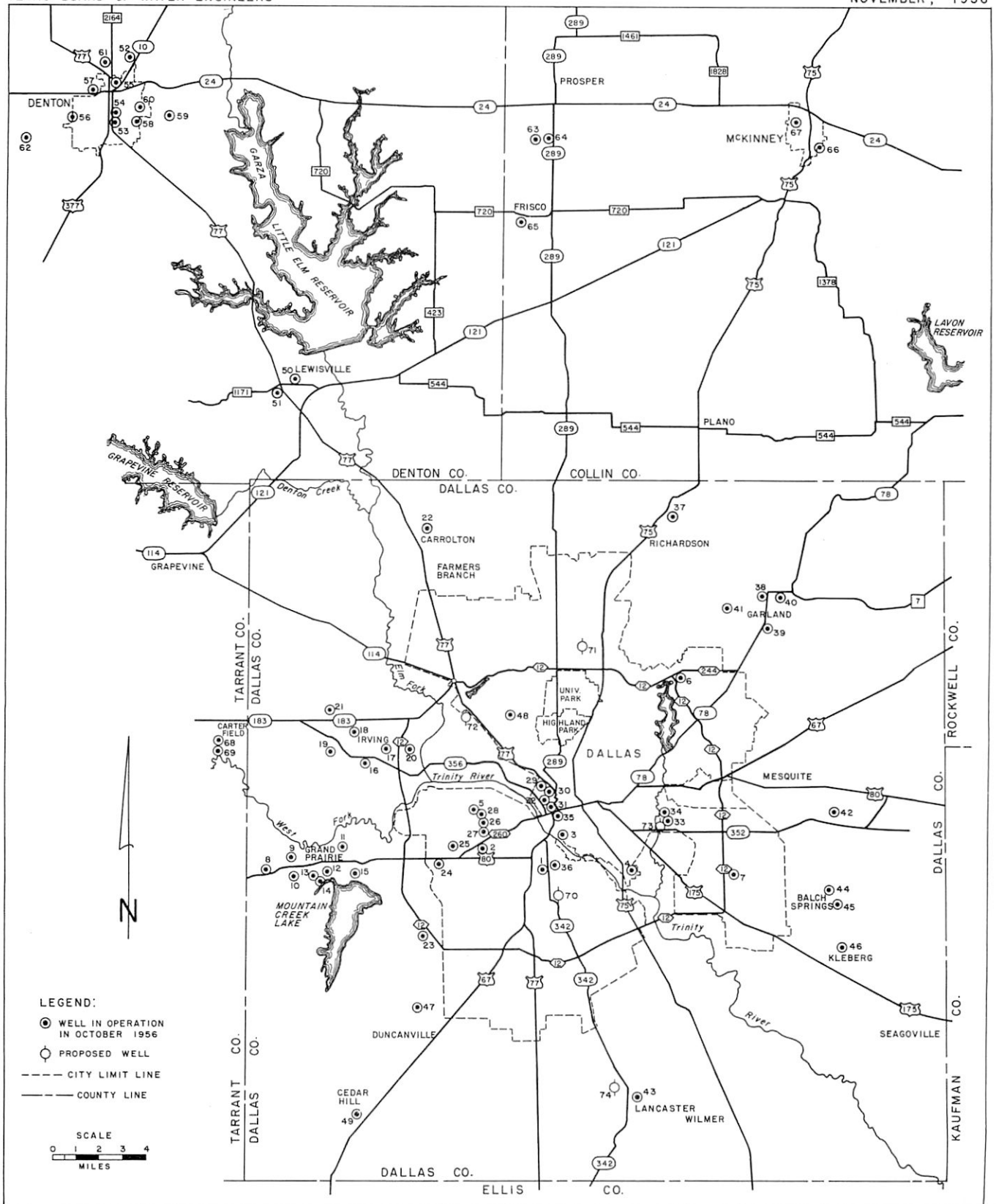


FIGURE I - MAP OF THE DALLAS AREA, TEX., SHOWING LOCATIONS OF WELLS PRODUCING WATER FROM THE TRAVIS PEAK FORMATION ("TRINITY SAND")

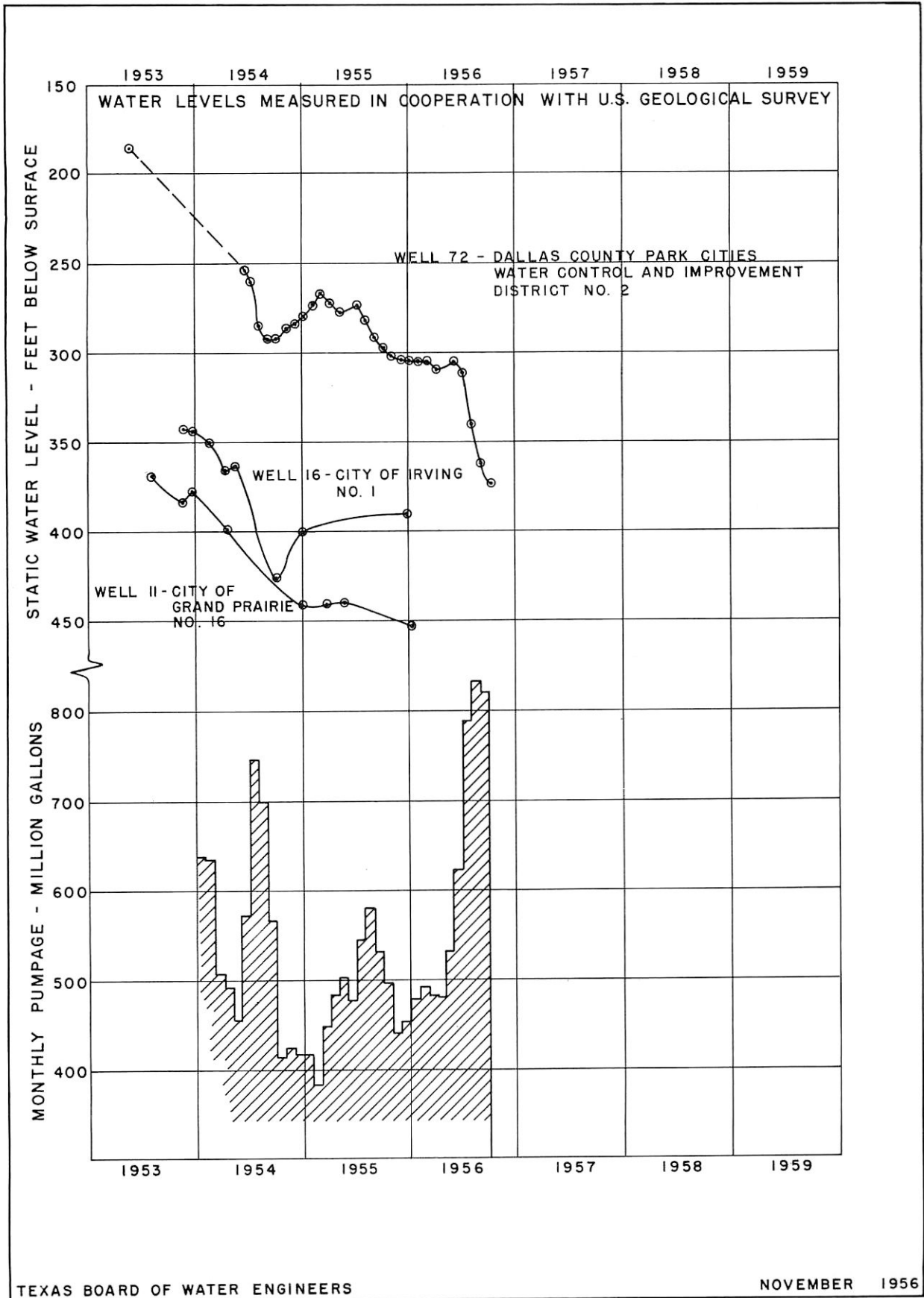


FIGURE 2 - STATIC WATER LEVELS AND ESTIMATED MONTHLY PUMPAGE FROM TRAVIS PEAK WELLS, DALLAS COUNTY, TEX.

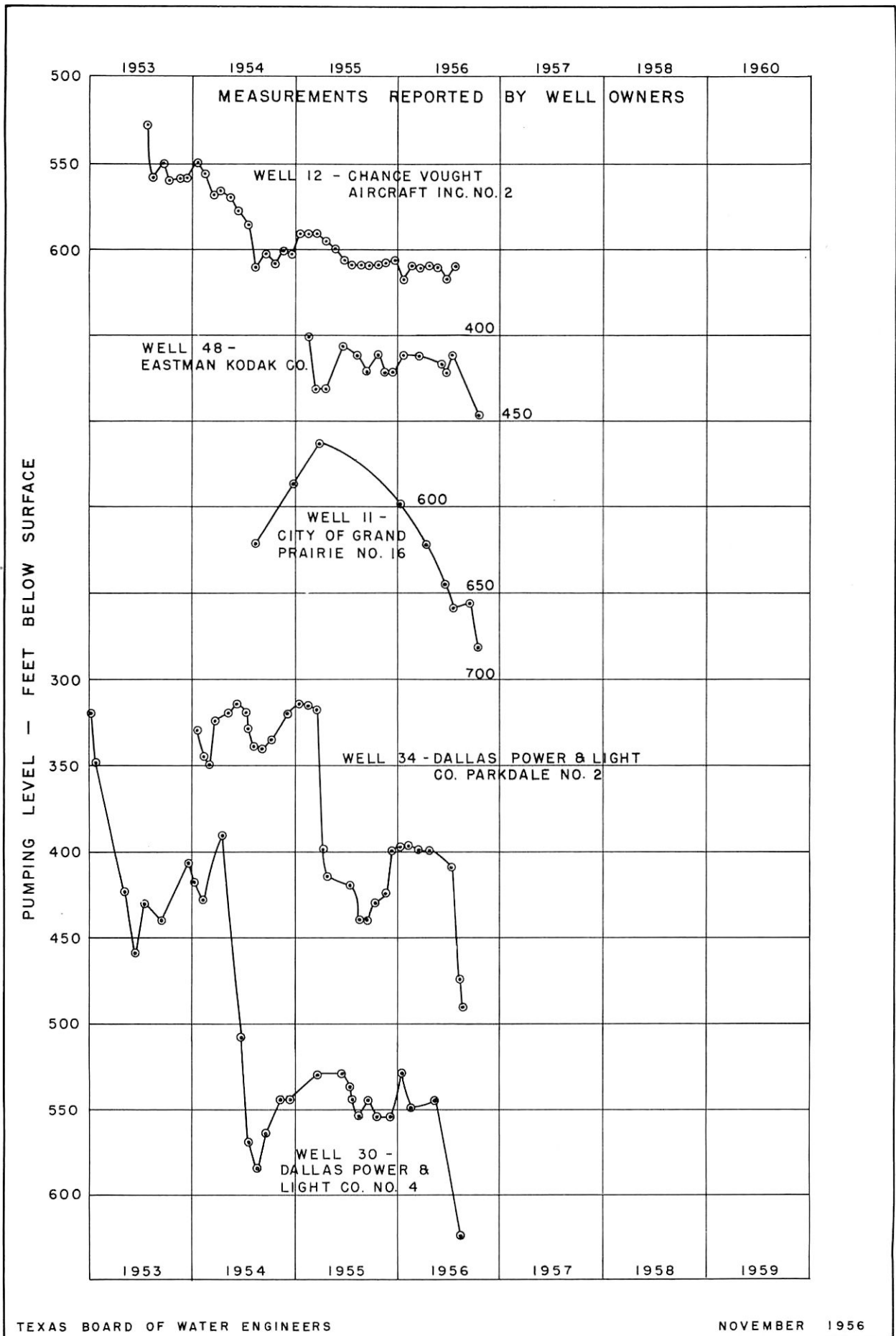


FIGURE 3 - PUMPING LEVELS IN TRAVIS PEAK WELLS, DALLAS COUNTY, TEX.